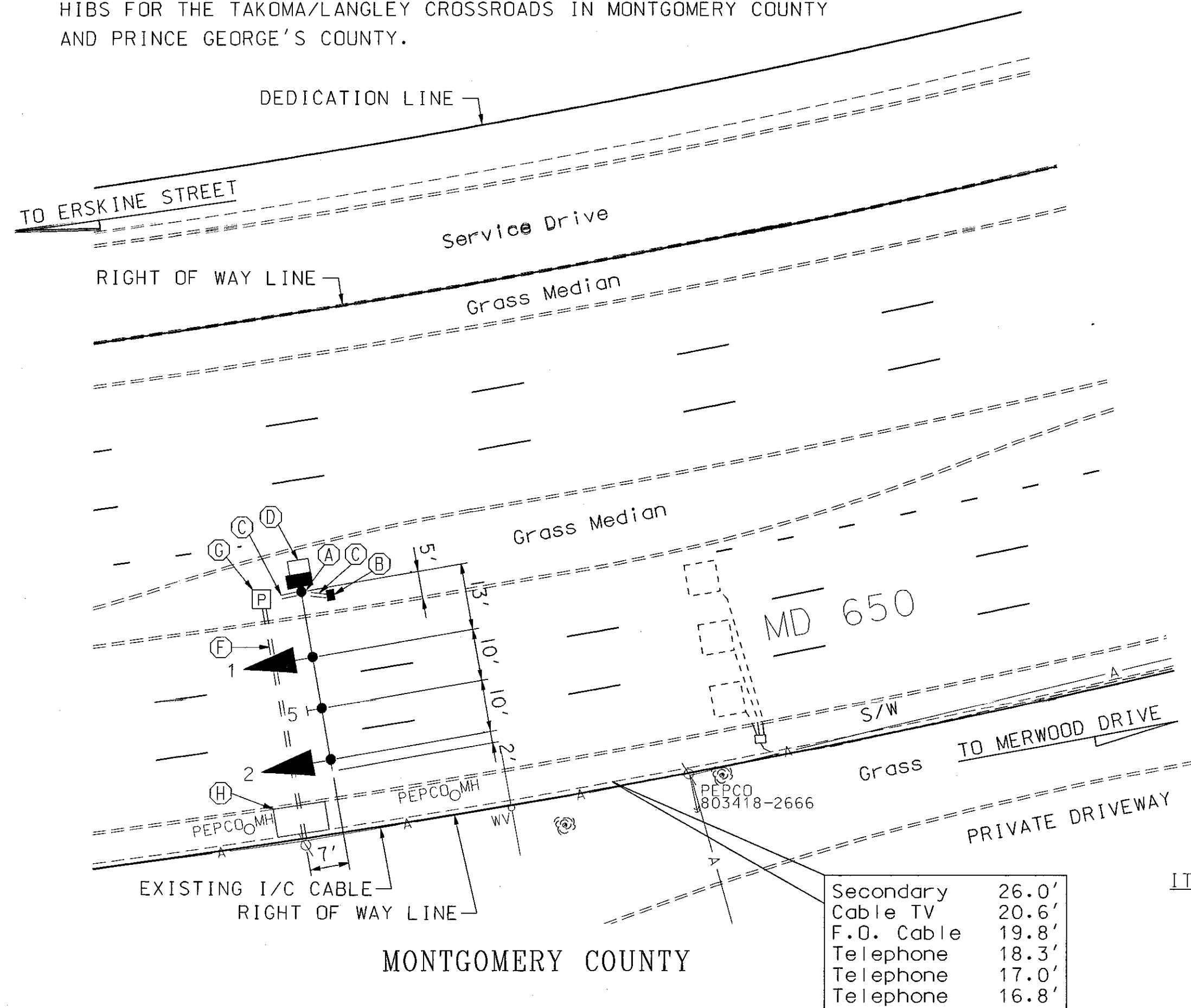


# PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE INSTALLATION OF PEDESTRIAN ZONE HIBS FOR THE TAKOMA/LANGLEY CROSSROADS IN MONTGOMERY COUNTY AND PRINCE GEORGE'S COUNTY.



## EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY THE SHA AND INSTALLED BY THE CONTRACTOR

ITEM NO.	QUANTITY	DESCRIPTION
9037	2 EA	CABINET "G" TYPE POLE MOUNT
9068	2 EA	2 CIRCUIT FLASHER
9571	80 SF	SHEET ALUMINUM MAST ARM MOUNTED SIGN 2- "PEDESTRIAN AREA" (120"x48")

## EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR

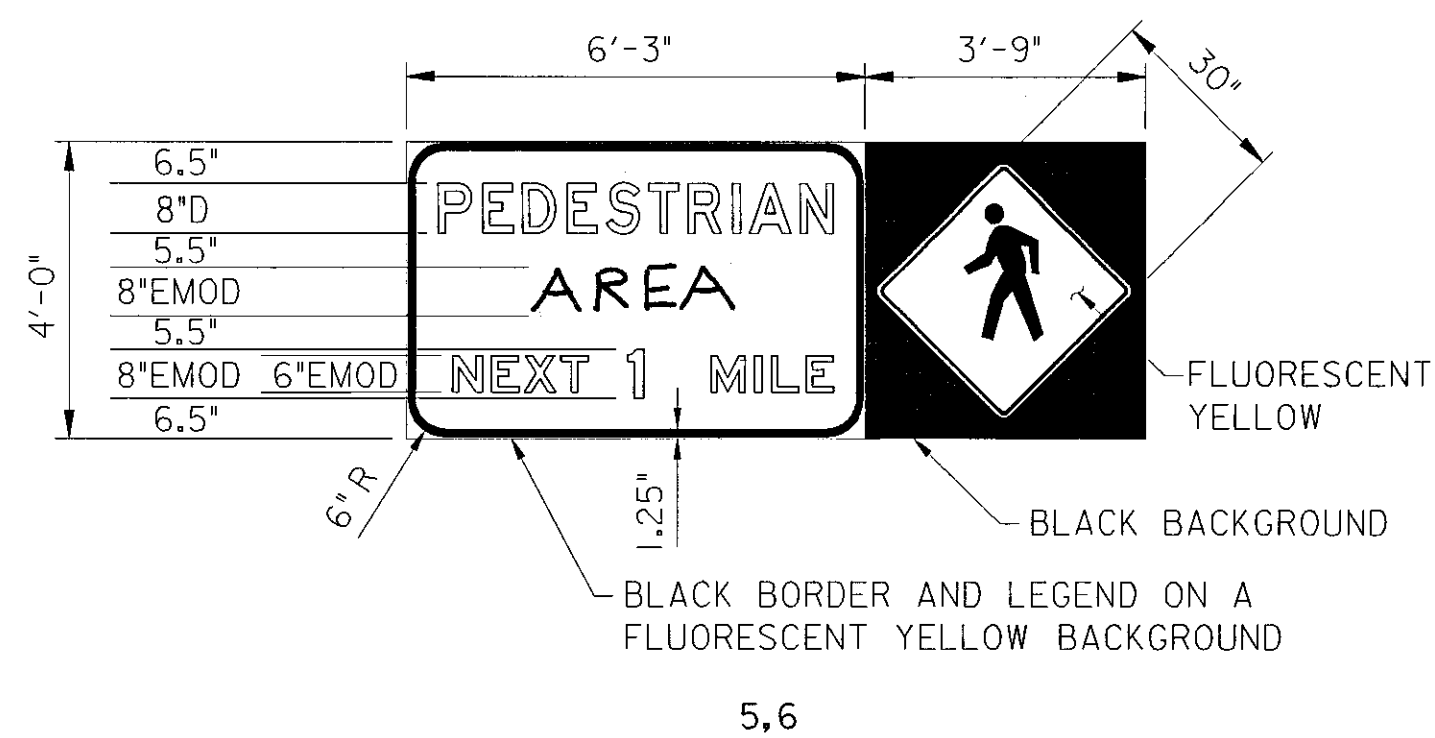
ITEM NO.	QUANTITY	DESCRIPTION
1001	2 EA	MAINTENANCE OF TRAFFIC
2001	2 CY	CLASS 2 EXCAVATION
2002	3 CY	TEST PIT EXCAVATION
6004	90 SF	4 INCH CONCRETE SIDEWALK
8001	11 CY	CONCRETE FOUNDATION
8015	1 EA	MAST ARM POLE (15' T) & 60 FT MAST ARM
8030	40 LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
8037	50 LF	4 INCH SCHEDULE 80 RIGID PVC CONDUIT-BORED
8039	20 LF	3 INCH SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED

## CONSTRUCTION DETAILS

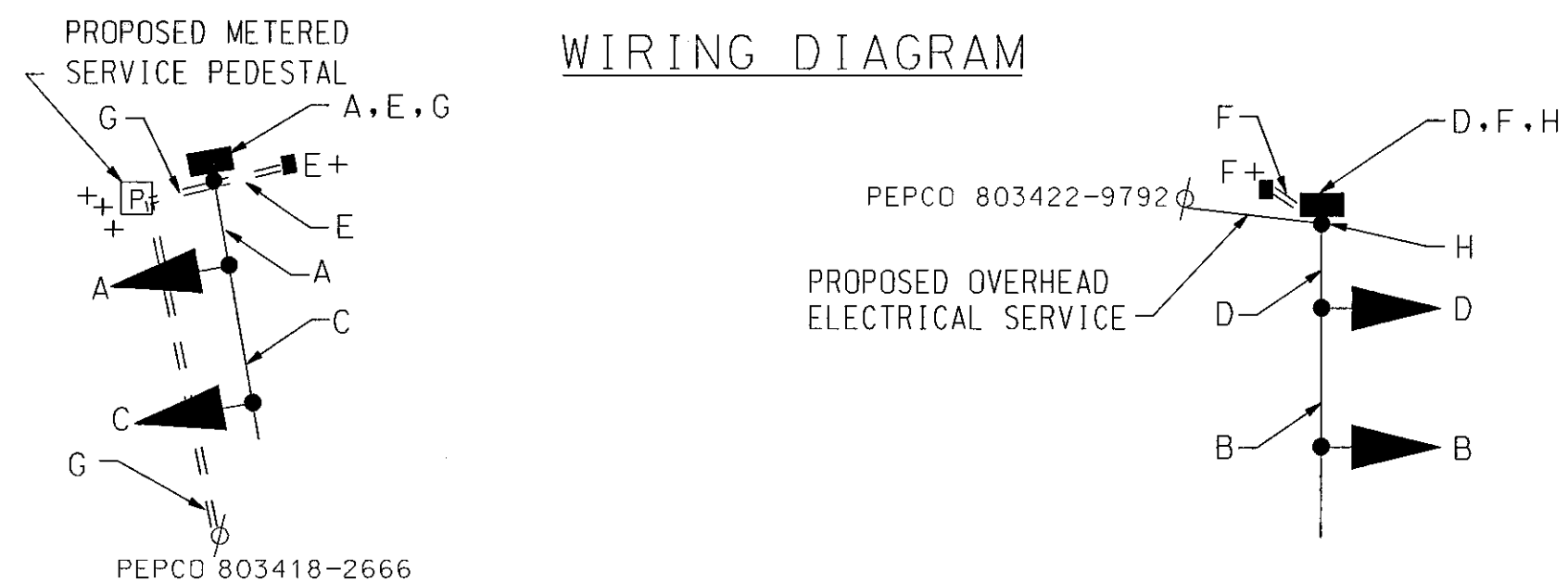
- INSTALL 27' POLE (CUT TO 21') WITH A SINGLE 60' MAST ARM (CUT TO 35'), SIGNAL HEADS, SIGN AND CABINET. (NOTE: ONE 3" PVC CONDUIT BENDS ARE REQUIRED)
- INSTALL HANDHOLE.
- INSTALL 1-3" SCHEDULE 80 PVC CONDUIT - TRENCHED.
- INSTALL A 4 FT x 4 FT x 4 INCH DEEP CONCRETE PAD AS SHOWN.
- PROPOSED OVERHEAD ELECTRICAL SERVICE.
- INSTALL 4" SCHEDULE 80 PVC CONDUIT - BORED.
- INSTALL METERED SERVICE PEDESTAL WITH ELECTRICAL UTILITY SERVICE EQUIPMENT FOR 120/240V UNDERGROUND SERVICE. (NOTE: ONE 4" AND ONE 3" PVC CONDUIT BEND REQUIRED.)
- REMOVE CONCRETE SIDEWALK AS REQUIRED FOR CONDUIT INSTALLATION THEN INSTALL 4" CONCRETE SIDEWALK
- INSTALL MAST ARM POLE (15' T) & 60 FT MAST ARM (CUT TO 35'), SIGNAL HEADS, SIGN, CABINET AND ELECTRICAL UTILITY SERVICE EQUIPMENT FOR 120/240V OVERHEAD SERVICE. (NOTE: 2-3" PVC CONDUIT BENDS ARE REQUIRED.)

UTILITY LEGEND	
G	GAS MAIN
W	WATER MAIN
S	SEWER MAIN
E	ELECTRIC CABLES
A	AERIAL CABLES
T	TELEPHONE CABLES

## PROPOSED SIGNS



## WIRING DIAGRAM



## WIRING LEGEND

- A,B,C,D } 3-CONDUCTOR ELECTRICAL CABLE NO. 14 A.W.G.
- E,F } STRANDED BARE COPPER GROUND WIRE NO. 6 A.W.G.
- G,H } 1-CONDUCTOR ELECTRICAL CABLE NO. 4 A.W.G. (THREE RUNS)
- + } GROUND ROD

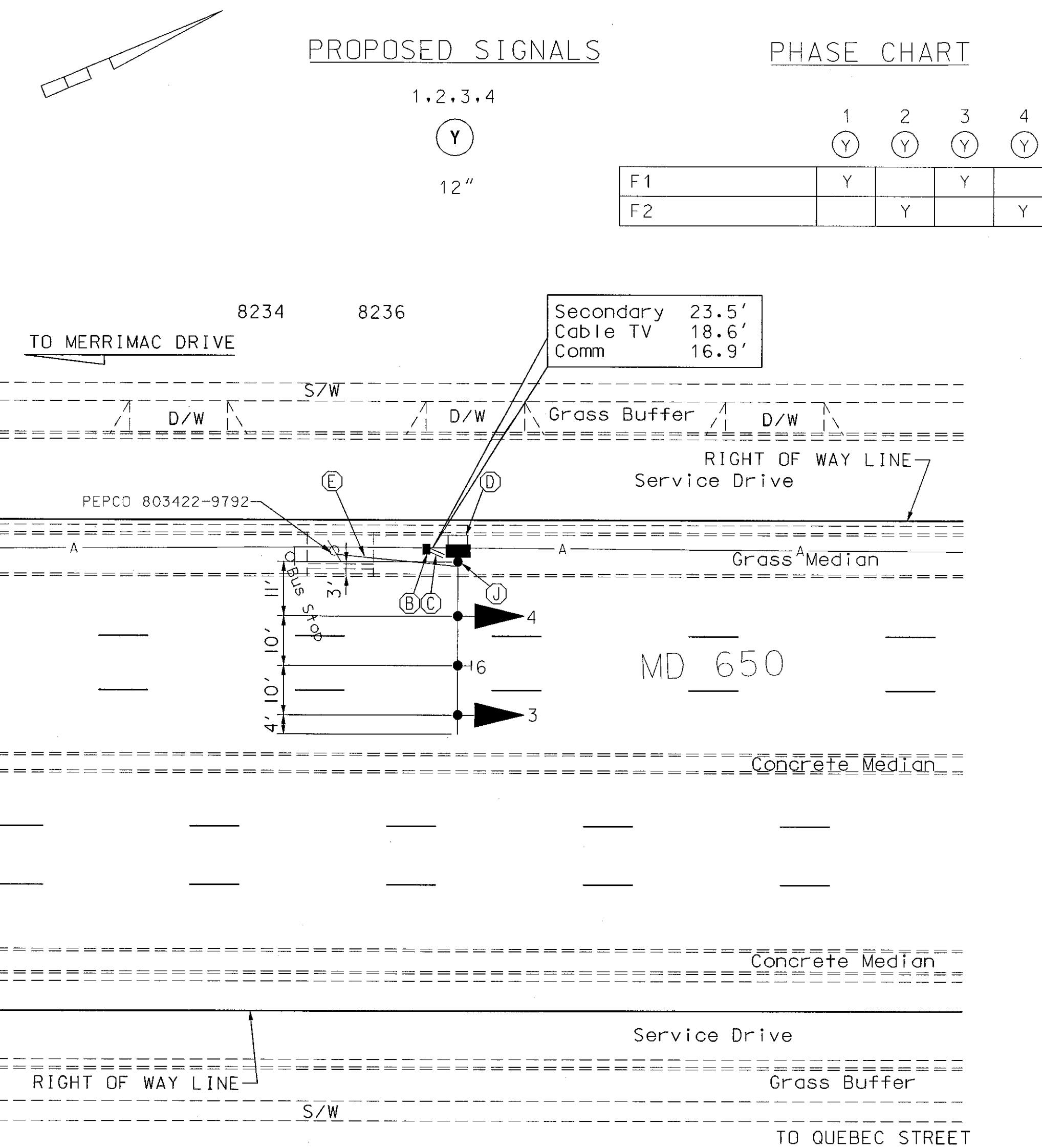
## EQUIPMENT LIST "B" - CONTINUED

ITEM NO.	QUANTITY	DESCRIPTION
8045	1 EA	METERED SERVICE PEDESTAL
8046	1 EA	ELECTRICAL UTILITY SERVICE EQUIPMENT
8047	390 LF	ELECTRICAL CABLE 1-CONDUCTOR NO. 4 AWG-THHN/THWN
8053	2 EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE
8056	80 SF	INSTALL OVERHEAD SIGN
8064	1 EA	STEEL POLE WITH A SINGLE 60 FOOT MAST ARM
8074	5 EA	GROUND ROD - 3/4 INCH DIAMETER X 10 FOOT LENGTH
8076	4 EA	12 INCH VEHICULAR TRAFFIC SIGNAL HEAD SECTION
8079	3 EA	CUT, CLEAN, GALVANIZE AND CAP TRAFFIC SIGNAL STRUCTURE
8083	300 LF	ELECTRICAL CABLE 3-CONDUCTOR (NO. 14 AWG)
8094	2 EA	INSTALL CONTROLLER AND CABINET - POLE MOUNT

## GENERAL NOTES

- THE CONTRACTOR MUST VERIFY THE LOCATION OF ALL EXISTING GEOMETRICS PRIOR TO INSTALLING ANY SIGNAL EQUIPMENT.
- ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC AND ARE NOT TO BE CONSIDERED COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING ALL UTILITY COMPANIES PRIOR TO CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN THE UTILITIES AND THE TRAFFIC SIGNAL EQUIPMENT WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE PROJECT ENGINEER IMMEDIATELY.
- ALL TRAFFIC SIGNAL FOUNDATIONS SHALL BE INSTALLED AT THE FINAL SIDEWALK OR CURB GRADE FOR CLOSED SECTIONS, HIGHEST ROADWAY PROFILE GRADE FOR OPEN SECTIONS, TO MEET CLEARANCES AS SPECIFIED IN MD 818.01, MD 818.02 AND MD 818.04. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.

## PROPOSED SIGNALS



## PRINCE GEORGE'S COUNTY

## PROJECT CONTACTS

CONTACTS FOR DISTRICT 3:

MR. LEE STARKLOFF  
ASSISTANT DISTRICT ENGINEER - TRAFFIC  
PHONE: (301) 513-7318

MR. AUGIE REBISH  
DISTRICT UTILITIES ENGINEER  
PHONE: (301) 513-7350

CONTACTS FOR MONTGOMERY COUNTY:

MR. BOB GONZALES  
MONTGOMERY COUNTY D.P.W. - ATMS  
PHONE: (240) 777-8761

CONTACTS FOR OFFICE OF TRAFFIC AND SAFETY:

MR. ED RODENHIZER  
TEAM LEADER, SIGNAL OPERATIONS  
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MR. EUGENE BAILEY  
TEAM LEADER, SIGN OPERATIONS  
410-787-7676

POWER COMPANY REPRESENTATIVE:

MR. STEVE CUSTER  
POTOMAC ELECTRIC AND POWER COMPANY  
PHONE: (301) 931-2880

APPROVALS	
<i>[Signature]</i> TEAM LEADER, TRAFFIC ENGINEERING DESIGN DIVISION	<i>[Signature]</i> ASST. CHIEF TRAFFIC ENGINEERING DESIGN DIVISION
CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION	
DIRECTOR, OFFICE OF TRAFFIC & SAFETY	

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SHA # MD0850A64/004 TOD # AT081014

**SHA** MARYLAND DOT - STATE HIGHWAY ADMINISTRATION  
Office of Traffic & Safety  
TRAFFIC ENGINEERING DESIGN DIVISION  
PEDESTRIAN WARNING HIBs ON MD 650  
BETWEEN ERSKINE STREET & MERWOOD DRIVE AND  
BETWEEN QUEBEC STREET & MERRIMAC DRIVE

DRAWN BY: SMH	CHECKED BY: BLB	F.A.P. NO. -	S.H.A. NO. AT3565185	TS NO. 4330	SHEET NO. 1 OF 1
SCALE: 1"=20'	DATE: 7/30/2004	COUNTY: Montgomery & Prince George's	T.I.M.S. NO. G171		
		LOG MILE: J6019300.33			